

City of Leon, Iowa

Sanitary Sewer Improvements

Cost Estimate - Sanitary Sewer Rehabilitation

CAPITAL COSTS

Project: Sanitary Sewer Rehabilitation

Item No.	Description	Quantity	Units	Unit Price	Total Price
GENERAL					
1	Mobilization, Insurance, etc...	1	LS	\$55,000	\$55,000
2	Traffic Control	1	LS	\$15,000	\$15,000
3	Clearing and Grubbing	1	LS	\$15,000	\$15,000
4	Erosion Control Plan, Permit and Management	1	LS	\$10,000	\$10,000
SANITARY SEWER REHABILITATION					
5	CIPP Sanitary Sewer Lining, 6-inch	2,323	LF	\$40	\$92,920
6	CIPP Sanitary Sewer Lining, 8-inch	7,204	LF	\$30	\$216,120
7	CIPP Sanitary Sewer Lining, 10-inch	4,956	LF	\$35	\$173,460
8	8-inch Sanitary Sewer Point Repair	12	EA	\$5,000	\$60,000
9	10-inch Sanitary Sewer Point Repair	3	EA	\$5,000	\$15,000
10	Manhole Rehabilitation	27	EA	\$3,500	\$94,500
SANITARY SEWER REPLACEMENT FIRST STREET					
11	8" PVC Sanitary Sewer (New Pipe)	1,320	LF	\$55	\$72,600
12	Sanitary Sewer Pipe Insulation	85	LF	\$2.50	\$213
13	4' ID Sanitary Manhole	10	EA	\$5,000	\$50,000
14	Imported Granular Backfill	424	LF	\$30	\$12,720
15	Full Depth Saw Cut	540	LF	\$10.00	\$5,400
16	4" PCC Sidewalk	180	SF	\$5.00	\$900
17	6" PCC Driveway Paving	290	SY	\$50	\$14,500
18	Remove 6" PCC Paving	290	SY	\$9.00	\$2,610
19	Remove 12" PCC Paving	30	SY	\$20	\$600
20	4" Sanitary Service Lateral	40	LF	\$10	\$400
21	4" Sanitary Sewer Lateral Bored	390	LF	\$30	\$11,700
22	Abandon Existing Sanitary Sewer	1	LS	\$10,000	\$10,000
23	Pressure Main offset	2	EA	\$5,000	\$10,000
SANITARY SEWER INSTALLATION SIXTH STREET					
24	8" PVC Sanitary Sewer (New Pipe)	100	LF	\$55	\$5,500
25	4' ID Sanitary Manhole	1	EA	\$5,000	\$5,000
26	4" Sanitary Service Lateral	20	LF	\$10	\$200
SANITARY SEWER REPLACEMENT ALONG EAST TRUNK LINE					
27	10" PVC Sanitary Sewer (New Pipe)	1,130	LF	\$65	\$73,450
28	New Sanitary Manhole	4	EA	\$5,000	\$20,000
29	Grading	1	LS	\$10,000	\$10,000
FLUSH TANK REHABILITATION					
30	Flush Tank Rehabilitation	5	EA	\$3,500	\$17,500
NEW SANITARY MANHOLE					
31	4' ID Sanitary Manhole	6	EA	\$5,500	\$33,000

SUBTOTAL - CONSTRUCTION	\$1,103,293
Contingency, Engineering, Legal	\$400,000
TOTAL PROJECT COST ESTIMATE	\$1,503,293

ANNUAL OPERATIONS AND MAINTENANCE COSTS

Project: Sanitary Sewer Rehabilitation

Item No.	Description	Quantity	Units	Unit Price	Annual Cost
1	Labor Hours	6	Hr / wk	\$20	\$6,240
2	Supplies	1		\$1,000	\$1,000
3	Maintenance and Repair	1		\$5,000	\$5,000
4	Insurance	1		\$2,000	\$2,000
	TOTAL ANNUAL O&M COSTS				\$14,240